

Home | Login | Logout | Access Information | Alerts |

#### **Welcome United States Patent and Trademark Office**

**#**■#Search Session History

BROWSE .

SEARCH

**IEEE XPLORE GUIDE** 

Edit an existing query or compose a new query in the Search Query Display.

Mon, 23 Apr 2007, 1:56:39 PM EST
Search Query Display

Select a search number (#)

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Indexed by

Inspec"

Recent Search Queries

#1 (accelerat\* <sentence> curve\* <sentence> tyre) <in> pdfdata

Help Contact Us Privacy & S

© Copyright 2006 IEEE -



Home | Login | Logout | Access Information | Alerts |

#### Welcome United States Patent and Trademark Office

©□3Search Results

**BROWSE SEARCH IEEE XPLORE GUIDE** Results for "(accelerat\* <sentence> curve\* <sentence> tyre) <in> pdfdata" 🖾 e-mail Your search matched 8 of 1551427 documents. A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order. » Search Options View Session History **Modify Search** New Search (accelerat\* <sentence> curve\* <sentence> tyre) <in> pdfdata Search Check to search only within this results set » Key Display Format: 

Citation C Citation & Abstract IEEE Journal or IEEE JNL Magazine view selected items IET JNL IET Journal or Magazine Select All Deselect All **IEEE Conference IEEE CNF** Proceeding 1. Dynamic performance of automated guideway transit vehicles with dual-a П **IET Conference IET CNF** Nisonger, R.L.; Wormley, D.N.; Proceeding Vehicular Technology, IEEE Transactions on Volume 28, Issue 1, Feb 1979 Page(s):88 - 94 IEEE STD IEEE Standard AbstractPlus | Full Text: PDF(608 KB) IEEE JNL Rights and Permissions 2. Nonlinear state and tire force estimation for advanced vehicle control Ray, L.R.; Control Systems Technology, IEEE Transactions on Volume 3, Issue 1, March 1995 Page(s):117 - 124 Digital Object Identifier 10.1109/87.370717 AbstractPlus | Full Text: PDF(616 KB) IEEE JNL Rights and Permissions 3. The use of GPS for vehicle stability control systems Daily, R.; Bevly, D.M.; Industrial Electronics, IEEE Transactions on Volume 51, Issue 2, April 2004 Page(s):270 - 277 Digital Object Identifier 10.1109/TIE.2004.824851 AbstractPlus | References | Full Text: PDF(464 KB) | IEEE JNL Rights and Permissions 4. Analysis and redesign of an antilock brake system controller Wellstead, P.E.; Pettit, N.B.O.L.; Control Theory and Applications, IEE Proceedings-Volume 144, Issue 5, Sept. 1997 Page(s):413 - 426 AbstractPlus | Full Text: PDF(1348 KB) IET JNL 5. Robust vehicle yaw control using active differential and internal model co techniques Canale, M.; Fagiano, L.; Milanese, M.; Borodani, P.; American Control Conference, 2006 14-16 June 2006 Page(s):6 pp. Digital Object Identifier 10.1109/ACC.2006.1657574

AbstractPlus | Full Text: PDF(480 KB) IEEE CNF

#### Rights and Permissions

6. Design of a rally driver support system using ecological interface design Kruit, J.D.; Mulder, M.; Amelink, M.; van Paassen, M.M.; Systems, Man and Cybernetics, 2005 IEEE International Conference on Volume 2, 10-12 Oct. 2005 Page(s):1235 - 1239 Vol. 2 Digital Object Identifier 10.1109/ICSMC.2005.1571315 AbstractPlus | Full Text: PDF(232 KB) IEEE CNF Rights and Permissions 7. Optimal path design in robot soccer environment Lepetic, M.; Klancar, G.; Skrjanc, I.; Matko, D.; Potocnik, B.; Industrial Technology, 2003 IEEE International Conference on Volume 2, 10-12 Dec. 2003 Page(s):778 - 783 Vol.2 Digital Object Identifier 10.1109/ICIT.2003.1290756 AbstractPlus | Full Text: PDF(1519 KB) | IEEE CNF Rights and Permissions 8. Path planning considering acceleration limits Lepetic, M.; Klancar, G.; Skrjanc, I.; Matko, G.; Potocnik, B.; EUROCON 2003. Computer as a Tool. The IEEE Region 8 Volume 1, 22-24 Sept. 2003 Page(s):337 - 341 vol.1 AbstractPlus | Full Text: PDF(397 KB) IEEE CNF Rights and Permissions

indexed by ण Inspec' Help Contact Us Privacy & S © Copyright 2006 IEEE -

## **Refine Search**

#### Search Results -

Terms	Documents	
L13 and (accelerat\$ with (curve or line))	1	

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database

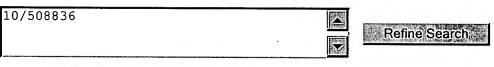
Database:

JPO Abstracts Database

Derwent World Patents Index

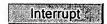
**IBM Technical Disclosure Bulletins** 

Search:









### **Search History**

DATE: Monday, April 23, 2007 Purge Queries Printable Copy Create Case

Set Name side by side	Query	Hit Count	<u>Set</u> <u>Name</u> result set
DB = EPA	B,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L14</u>	L13 and (accelerat\$ with (curve or line))	. 1	<u>L14</u>
<u>L13</u>	L12 and (compar\$ with (curves or data))	48	<u>L13</u>
<u>L12</u>	L11 and ((tyre or tire) with (sensor or sensing or sense\$))	3736	<u>L12</u>
<u>L11</u>	TYRE AND (vehicle or car or automobile)	48162	<u>L11</u>
DB=PGP $OP=OR$	PB, $USPT$ , $USOC$ , $EPAB$ , $JPAB$ , $DWPI$ , $TDBD$ ; $THES$ = $ASSIGNEE$ ; $PL$	UR = YES;	
<u>L10</u>	L9 and (accelerat\$ with (curve or line))	10	<u>L10</u>
<u>L9</u>	L7 and (compar\$ with (curves or data)).clm.	75	<u>L9</u>
<u>L8</u>	L7 and (compar\$ with (curves or data))	331	<u>L8</u>
<u>L7</u> ·	L6 and sensors	2030	<u>L7</u>
<u>L6</u>	L5 and ((tyre or tire) with (sensor or sensing or sense\$))	2522	<u>L6</u>
<u>L5</u>	L4 and (vehicle or car or automobile)	14403	<u>L5</u>
<u>L4</u>	12 or L3	20044	<u>L4</u>

<u>L3</u>	L1 and @pd<=20030325	16838	<u>L3</u>
<u>L2</u> .	L1 and @ad<=20030325	20044	<u>L2</u>
<u>L1</u>	tyre.clm. or tire.clm.	25504	<u>L1</u>

## END OF SEARCH HISTORY

## First Hit Previous Doc Next Doc Go to Doc#

## **End of Result Set**

Generate Collection Print

L14: Entry 1 of 1

File: DWPI

Nov 15, 2006

DERWENT-ACC-NO: 2003-779427

DERWENT-WEEK: 200677

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Tyre behavior monitoring method for motor <u>vehicles</u>, involves <u>comparing</u> cyclic <u>curve</u> of <u>acceleration</u> profile derived from <u>tyre</u> with reference <u>curve</u> and emitting signal indicating behavior of <u>tyre</u> based on comparison

INVENTOR: BRUSAROSCO, M; FIORAVANTI, A P; MANCOSU, F; TALDO, A; FIORAVANTI, A

PATENT-ASSIGNEE: PIRELLI PNEUMATICI SPA (PIRE), PIRELLI <u>TYRE</u> SPA (PIRE), BRUSAROSCO M (BRUSI), FIORAVANTI A P (FIORI), MANCOSU F (MANCI), TALDO A (TALDI)

Search Selected Search ALL Clear

PRIORITY-DATA: 2002WO-EP03498 (March 28, 2002)

	10 martin 200	Coalient Coalient	/ LEE     OIO	aı.	
PAT	ENT-FAMILY:				
	PUB-NO	PUB-DATE LANGUAG		PAGES	MAIN-IPC
	EP 1487681 B1	November 15, 2006	E	000	B60T008/00
	WO 2003082643 A1	October 9, 2003	E	033	В60Т008/00
	AU 2002315757 A1	October 13, 2003		000	В60Т008/00
	BR 200209721 A	July 27, 2004		000	В60Т008/00
	EP 1487681 A1	December 22, 2004	E	000	B60T008/00
	KR 2005014798 A	February 7, 2005		000	B60T008/00
	KR 2005016318 A	February 21, 2005		000	В60Т008/00
	<u>JP 2005521866 W</u>	July 21, 2005		019	G01P015/18
	US 20050204806 A1	September 22, 2005		000	G01M017/02
	CN 1649764 A	August 3, 2005		000	В60Т008/00
	RU 2281215 C2	August 10, 2006		000	B60T008/00

DESIGNATED-STATES: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:			
PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1487681B1	March 28, 2002	2002EP-0740440	
EP 1487681B1	March 28, 2002	2002WO-EP03498	
EP 1487681B1		WO2003082643	Based on
WO2003082643A1	March 28, 2002	2002WO-EP03498	
AU2002315757A1	March 28, 2002	2002AU-0315757	
AU2002315757A1	March 28, 2002	2002WO-EP03498	
AU2002315757A1		WO2003082643	Based on
BR 200209721A	March 28, 2002	2002BR-0009721	
BR 200209721A	March 28, 2002	2002WO-EP03498	
BR 200209721A		WO2003082643	Based on
EP 1487681A1	March 28, 2002	2002EP-0740440	
EP 1487681A1	March 28, 2002	2002WO-EP03498	
EP 1487681A1		WO2003082643	Based on
KR2005014798A	March 28, 2002	2002WO-EP03498	
KR2005014798A	September 23, 2004	2004KR-0715113	
KR2005016318A	September 23, 2004	2004KR-0715114	
JP2005521866W	March 28, 2002	2002WO-EP03498	
JP2005521866W	March 28, 2002	2003JP-0580133	
JP2005521866W		WO2003082643	Based on
US20050204806A1	March 28, 2002	2002WO-EP03498	
US20050204806A1	May 11, 2005	2005US-0508829	
CN 1649764A	March 25, 2003	2003CN-0809542	
RU 2281215C2	March 28, 2002	2002WO-EP03498	
RU 2281215C2	March 28, 2002	2004RU-0131676	
RU 2281215C2		WO2003082643	Based on

INT-CL (IPC): B60C 23/00; B60T 8/00; G01M 17/02; G01P 15/00; G01P 15/18

RELATED-ACC-NO: 2003-788324

ABSTRACTED-PUB-NO: WO2003082643A

BASIÇ-ABSTRACT:

NOVELTY - The method involves storing a reference <u>curve of the acceleration</u> profile of a point of a <u>tyre</u> (1) and continuously acquiring <u>acceleration</u> signals in two directions on a point in the <u>tyre</u> during a portion of its revolution. A cyclic <u>curve of the acceleration</u> profile is derived from the signals, and is <u>compared</u> with the reference <u>curve</u>. A signal indicating the behavior of the <u>tyre</u> is emitted based on the comparison.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) a system for monitoring behavior of a  $\underline{\text{tyre}}$  in a rolling condition
- (b) a pneumatic tire with a sensor.

USE - Used for monitoring behavior of rolling tyres of motor vehicles.

ADVANTAGE - The method monitors the acceleration on two points that have

relationship with one another with respect to the global behavior of the tyre, to give the instantaneous behavior of the tyre. The two points have a specific behavior with respect to the interactions between the tyre and the road.

DESCRIPTION OF DRAWING(S) - The drawing shows a section view of a rolling tyre with a sensor.

Tyre 1

Sensor 2

Liner surface 111

ABSTRACTED-PUB-NO: WO2003082643A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/8

DERWENT-CLASS: Q11 Q18 S02 X22 EPI-CODES: S02-J02A; X22-E02B;

> Previous Doc Next Doc Go to Doc#

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L13: Entry 6 of 48

File: JPAB

May 27, 2003

PUB-NO: JP02003154825A

DOCUMENT-IDENTIFIER: JP 2003154825 A

TITLE: TIRE AIR PRESSURE MONITORING DEVICE

PUBN-DATE: May 27, 2003

INVENTOR-INFORMATION:

NAME

COUNTRY

HIROHAMA, TETSUO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

NISSAN MOTOR CO LTD

APPL-NO: JP2001353715

APPL-DATE: November 19, 2001

INT-CL (IPC): B60C 23/04; G01L 17/00; G01P 3/16; G08C 17/02; G08C 25/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a tire air pressure monitoring device that can automatically reregister an identification code without using dedicated equipment even upon tire replacement, by distinguishing a mounted tire and an unmounted tire.

SOLUTION: In a vehicle with a plurality of tires, the tire air pressure monitoring device comprises tire air pressure sensors 10 for detecting the air pressure of each tire and transmitting an ID and the detected air pressure peculiar to each tire via a radio signal, a receiving antenna 13b and a receiving circuit 13c mounted on the vehicle to receive the radio signals from the tire air pressure sensors 10, and a microcomputer 13f for conducting the mounted tire ID registration arithmetic processing of comparing stored IDs of mounted tires and IDs of data including an ON centrifugal switch signal, and if both IDs do not match, changing unmatched IDs for updated storage.

COPYRIGHT: (C) 2003, JPO

Previous Doc

Next Doc

Go to Doc#

### Previous Doc

Next Doc

Go to Doc#



L13: Entry 7 of 48

File: JPAB

Apr 23, 2002

PUB-NO: JP02002120530A

DOCUMENT-IDENTIFIER: JP 2002120530 A

TITLE: MONITORING METHOD FOR PNEUMATIC TIRE, AND MONITORING DEVICE THEREFOR

PUBN-DATE: April 23, 2002

INVENTOR-INFORMATION:

NAME

COUNTRY

RIN, SHOTEI KAN, EIGEN

ASSIGNEE-INFORMATION:

NAME

COUNTRY

LITE ON AUTOMOTIVE CORP

APPL-NO: JP2001247416

APPL-DATE: August 16, 2001

PRIORITY-DATA: 2000TW-89117036 (August 22, 2000)

INT-CL (IPC): B60C 23/02; B60C 19/00; B60C 23/20

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a monitoring method for a pneumatic  $\underline{\text{tire}}$  used in a  $\underline{\text{car}}$ , and a monitoring device therefor.

SOLUTION: In this monitoring method for a pneumatic  $\underline{\text{tire}}$  used in a  $\underline{\text{car}}$ , and this monitoring device therefor, a  $\underline{\text{sensor}}$  module, and an analysis module comprising a wireless frequency antenna, a memory, a processor, a display unit, and a siren are included. The  $\underline{\text{sensor}}$  module monitors states of the  $\underline{\text{tire}}$  to  $\underline{\text{compare}}$  first  $\underline{\text{data}}$  indicating the state of the  $\underline{\text{tire}}$  when the  $\underline{\text{car}}$  is started with second  $\underline{\text{data}}$  indicating the state of the  $\underline{\text{tire}}$  after the  $\underline{\text{car}}$  is started. When difference between both is larger than a first specified value, that is 1.4PSI, for example, it is determined that the  $\underline{\text{tire}}$  is in a slow/leak state.

COPYRIGHT: (C) 2002, JPO

Previous Doc Next Doc Go to Doc#

### Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L13: Entry 2 of 48

File: JPAB

Jun 29, 2006

PUB-NO: JP02006168633A

DOCUMENT-IDENTIFIER: JP 2006168633 A

TITLE: OPTIMUM ARRANGEMENT POSITION DETERMINATION SYSTEM FOR TIRE INFORMATION

READING DEVICE

PUBN-DATE: June 29, 2006

INVENTOR-INFORMATION:

NAME

COUNTRY

YAMADA, TATSUHIKO FUKUMORI, HAJIME

ASSIGNEE-INFORMATION:

NAME

COUNTRY

BRIDGESTONE CORP

APPL-NO: JP2004366413

APPL-DATE: December 17, 2004

INT-CL(IPCR):

TYPE IPC DATE IPC-OLD IPCP B60C23/04 20060101 B60C023/04 IPFC B60C23/02 20060101 B60C023/02 IPFC B60C23/20 20060101 B60C023/20 IPFC G01L17/00 20060101 G01L017/00

#### ABSTRACT:

PROBLEM TO BE SOLVED: To provide an optimum arrangement position determination system for a tire information reading device capable of finding the optimum arrangement position of the  $\underline{\text{tire}}$  information reading device even at a place or the like to which a person cannot enter and in traveling of the vehicle.

SOLUTION: The optimum arrangement position determination system is provided with a sensor device 3 mounted to the inside of the tire of the vehicle; a tire information reading device 1 for extracting measurement data from a radio signal from the sensor device 3 and measuring receiving signal intensity of the radio signal; a central control device 5 for storing the measurement data from the tire information reading device 1, storing the receiving signal itensity value in every arrangement position of the tire information reading device 1, comparing the receiving signal intensity value in every arrangement position of the tire information reading device 1 and determining the maximum receiving signal intensity to determine the optimum arrangement position of the tire information reading device 1; and a display part 7 for displaying the information of the optimum arrangement position of the tire information reading device 1.

Previous Doc

Next Doc

Go to Doc#

Print<sub>∗</sub>

Generate Collection

L13: Entry 4 of 48

File: JPAB

Jan 13, 2005

PUB-NO: JP02005008039A

DOCUMENT-IDENTIFIER: JP 2005008039 A

TITLE: TIRE AIR PRESSURE MONITORING DEVICE

PUBN-DATE: January 13, 2005

INVENTOR-INFORMATION:

NAME

COUNTRY

KIN, KEIYU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

HONDA MOTOR CO LTD

APPL-NO: JP2003174399 APPL-DATE: June 19, 2003

INT-CL (IPC): B60C 23/06; G01L 17/00

**ABSTRACT:** 

PROBLEM TO BE SOLVED: To provide a  $\underline{\text{tire}}$  air pressure monitoring device, monitoring the air pressure of a  $\underline{\text{tire}}$  with high accuracy although adopting a comparatively simple constitution.

SOLUTION: In a <u>vehicle</u> C, four wheels W (right and left front wheels Wfl, Wfr and right and left rear wheels Wrl, Wrr) are respectively provided with wheel speed sensors VS (VSfl, Vsfr, Vsrl, VSrr) for detecting the wheel speed (Vfl, Vfr, Vrl, Vrr) as a wheel vibration detecting means. The <u>tire</u> air pressure monitoring device 1 creates a vibration frequency reference spectral <u>data</u> in a predetermined speed range from the detection result of the wheel speed <u>sensor</u> V when the air pressure of the <u>tire</u> is a normal value, and <u>compares</u> the vibration frequency spectral <u>data</u> at the current time with the vibration frequency reference spectral <u>data</u> in the current speed range to determine lowering of the air pressure when the <u>comparison</u> result exceeds a predetermined value.

COPYRIGHT: (C) 2005, JPO&NCIPI

Previous Doc Next Doc Go to Doc#

## First Hit Previous Doc

## Next Doc

Go to Doc#

Print

Generate Collection

L13: Entry 11 of 48

File: JPAB

Dec 12, 1991

PUB-NO: JP403281406A

DOCUMENT-IDENTIFIER: JP 03281406 A

TITLE: CONTROL DEVICE FOR TIRE PRESSURE

PUBN-DATE: December 12, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

KAMIMURA, HIROKI MURAKAWA, KATSUJI NIIBE, TADAYUKI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MAZDA MOTOR CORP

APPL-NO: JP02083628

APPL-DATE: March 29, 1990

US-CL-CURRENT: 340/442 INT-CL (IPC): B60C 23/00

#### ABSTRACT:

PURPOSE: To improve running-ability on a road surface having low coefficient of friction by heightening the  $\underline{\text{tire}}$  pressure in the case of the coefficient of friction on a detected road surface being below a fixed value at high outside air temperature and lowering it at low outside air temperature through a control device for  $\underline{\text{tire}}$  pressure for a  $\underline{\text{car}}$  whose  $\underline{\text{tire}}$  pressure is varied in its running state.

CONSTITUTION: Information sent from air pressure  $\underline{sensors}$  211-214 for  $\underline{tires}$  1-4, wheel load  $\underline{sensors}$  221-224, a  $\underline{car}$  speed  $\underline{sensor}$  23, a road surface  $\underline{sensor}$  24, an outside air temperature  $\underline{sensor}$  25 and an ignition switch 26 is inputted into a controller 20, which determines the coefficient of friction  $\mu$  of the road surface on the  $\underline{data}$  given by the road surface  $\underline{sensor}$  24 to  $\underline{compare}$  it with a fixed value. When it is below the fixed value, the  $\underline{tire}$  pressure is controlled on the outside air temperature detected by the outside air temperature  $\underline{sensor}$  25. Namely, the  $\underline{tire}$  pressure is lowered in the case of the outside air temperature below the fixed value, and heightened in the case of the outside air temperature above the fixed value. This formation can improve running ability on the road surface having the low coefficient of friction.

COPYRIGHT: (C) 1991, JPO&Japio

Previous Doc Next Doc Go to Doc#

### Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L13: Entry 16 of 48

File: EPAB

Aug 23, 2001

PUB-NO: WO000160644A1

DOCUMENT-IDENTIFIER: WO 160644 A1

TITLE: SYSTEM FOR DETECTING THE OPTIMUM TYRE INFLATION PRESSURE

PUBN-DATE: August 23, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

DΕ

BARTELS, OLIVER

ASSIGNEE-INFORMATION:

NAME

COUNTRY

IQ MOBIL ELECTRONICS GMBH

DE

BARTELS OLIVER

DE

APPL-NO: EP00101741

APPL-DATE: February 16, 2001

PRIORITY-DATA: DE10007558A (February 18, 2000)

INT-CL (IPC): B60C 23/04 EUR-CL (EPC): B60C023/04

#### ABSTRACT:

CHG DATE=20011002 STATUS=N>The invention relates to a device or a system for detecting the desired value of the tyre inflation pressure and the tyre state in a motor vehicle or aircraft having wheels which are filled with air or gas, at least one sensor (DS>1<) for detecting the real value of the <pre>tyre inflation pressure, at least one additional <u>sensor</u> (TS>1<) for detecting measured values of the chassis and the environment and at least one evaluation unit (R>1<). The device is characterised in that the tyre inflation pressure sensor (DS>1<) continually supplies measured values to the evaluation unit, that the additional <u>sensor</u> supplies measured values which can be timely allocated to the measured values of the tyre inflation pressure sensor, that the evaluation unit compares the two measured values or supplies said values to a chassis model and that the results of the comparison or the data derived from the chassis model are used for providing the driver with a suggestion about the tyre inflation pressure or tyre type that is sensible for his/her way of use and driving style or for giving warning signs based on the current chassis states.

#### Previous Doc Next Doc

Go to Doc#

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

DE

L13: Entry 17 of 48

File: EPAB

Oct 19, 2000

PUB-NO: DE019917360A1

DOCUMENT-IDENTIFIER: DE 19917360 A1

TITLE: Tire damage detection system for cars uses acoustic sensors in the wheel

rims

PUBN-DATE: October 19, 2000

INVENTOR-INFORMATION:

NAME COUNTRY

TOMALLA, GEBHARD

ASSIGNEE-INFORMATION:

NAME COUNTRY

TOMALLA JUTTA DE

APPL-NO: DE19917360

APPL-DATE: April 16, 1999

PRIORITY-DATA: DE19917360A (April 16, 1999)

INT-CL (IPC): G01H 1/00; G01M 17/02; B60C 23/02

EUR-CL (EPC): B60C023/02; B60C023/06, G08C017/02 , G08C023/02

ABSTRACT:

CHG DATE=20010302 STATUS=0>The  $\underline{\text{tire}}$  damage detection system has acoustic  $\underline{\text{sensors}}$ (1-4) in the <u>car</u> wheel rim which send <u>data</u> by a radio link to a central analysis unit (5) which compares the road noise of the tires and can display (6) a warning if any tire differs for a long time.

> Previous Doc Next Doc Go to Doc#

Previous Doc

Next Doc

Go to Doc#

Print

Generate Collection

L13: Entry 18 of 48

File: EPAB

Apr 1, 1998

PUB-NO: EP000832766A2

DOCUMENT-IDENTIFIER: EP 832766 A2 TITLE: Tire pressure detecting device

PUBN-DATE: April 1, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
TOMINAGA, MOTONORI	JP
NISHIKAWA, YOSHIHIRO	JP
SUZUKI, MOTOJI	JP
FUJIWARA, KENJI	JP
OHASHI, HIDEKI	JP
UMENO, TAKAJI	JP

ASSIGNEE-INFORMATION:

NAME	COUNTRY
NIPPON SOKEN	JP
DENSO CORP	JР
TOYOTA MOTOR CO LTD	JP

APPL-NO: EP97116575

APPL-DATE: September 23, 1997

PRIORITY-DATA: JP27547996A (September 25, 1996)

INT-CL (IPC): B60C 23/06 EUR-CL (EPC): B60C023/06

#### ABSTRACT:

CHG DATE=19990617 STATUS=0> When pressure in any one of tires of a vehicle becomes abnormally low, the tire pressure detecting device detects it and gives a warning to a driver. The tire pressure detection is solely performed based on a value (D) calculated by an on-board micro computer (2) from wheel speeds of each wheel sensed by wheel speed sensors (la SIMILAR ld). The calculated value (D) to be used for the tire pressure detection must represent correctly the tire pressure. Whenever the calculated value has a possibility to misrepresent the tire pressure, such value is eliminated from the data for judging the tire pressure. When the value is calculated under a situation where any tire is slipping relative to a road surface, it is highly possible that the calculated value misrepresents the tire pressure. The situation where the tire slippage exists is found out by comparing a driving wheel acceleration (ARR, ARL) with a driven wheel acceleration (AFR, AFL), and the value (D) calculated under such situation is omitted from the data to be used for judging the tire pressure. It is also possible to prohibit calculation of the value (D) when the tire slippage is found out. Thus, the tire pressure is detected with a

high reliability.



Previous Doc

Next Doc

Go to Doc#

# First Hit Previous Doc Next Doc Go to Doc#

Generate Collection Print-

L13: Entry 19 of 48

File: EPAB

GB

Aug 13, 1997

PUB-NO: EP000788901A1

DOCUMENT-IDENTIFIER: EP 788901 A1

TITLE: Method of detecting a deflated tyre on a vehicle

PUBN-DATE: August 13, 1997

INVENTOR-INFORMATION:

NAME COUNTRY

JONES, DAVID

ASSIGNEE-INFORMATION:

NAME

SUMITOMO RUBBER IND JP

APPL-NO: EP97300712

APPL-DATE: February 5, 1997

PRIORITY-DATA: GB09602442A (February 7, 1996)

INT-CL (IPC): B60C 23/06 EUR-CL (EPC): B60C023/06

#### ABSTRACT:

CHG DATE=19990617 STATUS=0> A method of detecting a deflated tyre on a vehicle by comparing the rolling radii of the tyres by means of comparing angular velocity speed signal values C1, C2, C3 and C4 from wheel speed sensors on wheels 1-4 at the left-hand front, right-hand front, left-hand rear and right-hand rear wheel positions respectively, comprising the step of calculating an error value DEL' in normal driving by processing the four angular velocity speed signal values C1-C4 in a central process unit (10) which subtracts the sum of the signal values from one pair of diagonally opposite wheels from the sum of the signal values from the other pair of diagonally opposite wheels and expressing the result as a percentage of the mean of the sums the step of sensing when the magnitude of the error value DEL' is between a DEL'MIN value of 0.05 and a DEL'MAX value of 0.5 and when it is carrying out the step of deciding which tyre is apparently deflated by comparison of the angular velocity speed signal values C1-C4 with each other, and finally operating a tyre warning indicator in the vehicle to warn the driver that that particular tyre is deflated, characterised by a semi-automatic standardisation procedure initiated. by the driver comprising firstly recording a data-set DS of four values Ct1-Ct4 comprising the total wheel speed signal values C1-C4 for each wheel 1-4 in a predetermined time period t, secondly deciding if the data-set DS is acceptable or unacceptable, repeating the said recording and deciding until a predetermined number N of acceptable data-sets Ds have been accumulated, deriving wheel speed factors FAW(1)-FAW(4) for each of the four wheels 1-4 respectively by dividing the accumulated overall total number of wheel speed signal values Ctl-Ct4 of each wheel 1-4 by the accumulated overall total wheel speed signal values of any one of the wheels 1-4, and subsequently in normal driving correcting the four wheel speed

signal values C1-C4 by dividing each value by its respective wheel speed factor FAW (1)-FAW(4) and using these corrected wheel speed values to calculate the error

value DEL'.

Previous Doc

Next Doc

Go to Doc#

### Previous Doc

Next Doc

Go to Doc#

Generate Collection + 14

Print

L13: Entry 21 of 48

File: DWPI

Sep 14, 2006

DERWENT-ACC-NO: 2006-683051

DERWENT-WEEK: 200671

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Light disconnection measuring device for measuring tread depth of  $\underline{\text{tire}}$ , measures step-difference by  $\underline{\text{comparing}}$  image  $\underline{\text{data}}$  of bright line image of slit light formed on ground contact plane of  $\underline{\text{tire}}$ , and reference length  $\underline{\text{data}}$ 

INVENTOR: KAWADA, M; MONMA, H; MORIYA, M

PATENT-ASSIGNEE: MORITEX KK (MORIN)

PRIORITY-DATA: 2005JP-0056992 (March 2, 2005)

#### Search Selected

Search ALL

Clear

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

JP 2006242674 A

September 14, 2006

009

G01B011/14

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP2006242674A

March 2, 2005

2005JP-0056992

INT-CL (IPC): G01B 11/14; G01B 11/22; G01B 11/24

ABSTRACTED-PUB-NO: JP2006242674A

**BASIC-ABSTRACT:** 

NOVELTY - A light source (10) radiates a slit light on ground contact plane (S) of  $\underline{\text{tire}}$ . A handset (2) has a camera (11) to image a bright line image of slit light formed on the contact plane of  $\underline{\text{tire}}$ , at a direction different from irradiation axis. A  $\underline{\text{sensor}}$  (12) detects the movement distance of handset on the contact plane of  $\underline{\text{tire}}$ , by the rotation of rollers (7R,7L) along the circumference of  $\underline{\text{tire}}$ . An image processor (4) measures a gap or step-difference by  $\underline{\text{comparing}}$  the image  $\underline{\text{data}}$  obtained from camera during fixed distance movement of handset, and reference length data.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for image pick-up device for bright-line image.

USE - For measuring tread depth of motor  $\underline{\text{vehicle tire}}$  at repair shop and gasoline shop.

ADVANTAGE - The data of several measuring points distributed two-dimensionally on

the ground contact plane of tire, can be measured rapidly and accurately.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the light disconnection device. (Drawing includes non-English language text)

handset 2

image processor 4

rollers 7R,7L

light source 10

camera 11

sensor 12

ground contact plane of tire S

ABSTRACTED-PUB-NO: JP2006242674A

**EQUIVALENT-ABSTRACTS:** 

CHOSEN-DRAWING: Dwg.1/6

DERWENT-CLASS: S02 S03 W04 X22

EPI-CODES: S02-A03B3; S02-J02A; S03-E04X; W04-M01B1; W04-M01H; X22-X16;

Previous Doc Next Doc Go to Doc#

# First Hit Previous Doc Next Doc Go to Doc#

Generate Collection Print

L13: Entry 22 of 48

File: DWPI

Jun 29, 2006

DERWENT-ACC-NO: 2006-495604

DERWENT-WEEK: 200651

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Optimal arrangement position determination system of  $\underline{\text{tire}}$  information reader,  $\underline{\text{compares}}$  strength of radio signal containing  $\underline{\text{tire}}$  related  $\underline{\text{data}}$  received corresponding to each arrangement position of  $\underline{\text{tire}}$  information reader

INVENTOR: FUKUMORI, H; YAMADA, T

PATENT-ASSIGNEE: BRIDGESTONE CORP (BRID)

PRIORITY-DATA: 2004JP-0366413 (December 17, 2004)



PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC

<u>JP 2006168633 A</u> June 29, 2006 009 B60C023/02

APPLICATION-DATA:

PUB-NO APPL-DATE APPL-NO DESCRIPTOR

JP2006168633A December 17, 2004 2004JP-0366413

INT-CL (IPC): B60C 23/00; B60C 23/02; B60C 23/04; B60C 23/20; G01L 17/00

ABSTRACTED-PUB-NO: JP2006168633A

BASIC-ABSTRACT:

NOVELTY - Measuring unit (12) of <u>tire</u> information reader (1) measures strength of received radio signal containing <u>tire</u> related data such as <u>tire</u> pneumatic pressure output by <u>sensor</u> (3) fixed to <u>tire</u>. Detector (15) compares strength of radio signal received corresponding to each arrangement position of <u>tire</u> information reader, to detect optimal arrangement position of reader. Display (7) displays information about detected position.

USE - For determining optimal arrangement position of  $\underline{\text{tire}}$  information reader used for measuring pneumatic pressure and temperature of  $\underline{\text{tire of vehicle}}$ .

ADVANTAGE - Optimal arrangement position of <u>tire</u> information reader can be determined reliably even in <u>vehicle</u> driving state. <u>Tire</u> information reader can be quickly installed at optimal position in vehicle.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of optimal arrangement position determination system. (Drawing includes non-English language text).

tire information reader 1

sensor 3

central controller(7) display 5

measuring unit 12

detector 15

ABSTRACTED-PUB-NO: JP2006168633A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/4

DERWENT-CLASS: S02 W01 W02 W05 X22

EPI-CODES: S02-F04C1A; S02-K03A5X; W01-A07H2; W02-G03J1A; W05-D07D; W05-D08E; X22-

E02B;

Previous Doc Next Doc Go to Doc#

## Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L13: Entry 23 of 48

File: DWPI

Jul 21, 2005

DERWENT-ACC-NO: 2005-513189

DERWENT-WEEK: 200553

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: System for protection of occupants of  $\underline{\text{vehicle}}$  in case of damaged or flat

tire, comprising sensor, processing and indicating components

INVENTOR: SCHMIDT, R

PATENT-ASSIGNEE: DAIMLERCHRYSLER AG (DAIM)

PRIORITY-DATA: 2003DE-1060722 (December 23, 2003)

## Search Selected Search ALL

Clear

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

DE 10360722 A1

July 21, 2005

006

B60R021/01

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

DE 10360722A1

December 23, 2003

2003DE-1060722

INT-CL (IPC): B60C 23/00; B60K 28/16; B60R 21/01; B60T 8/32

ABSTRACTED-PUB-NO: DE 10360722A

BASIC-ABSTRACT:

NOVELTY - A <u>sensor</u> element (2) is attached to the <u>tire</u> (1) or the wheel rim, permanently transmitting signals to an evaluating and processing unit (4) where the incoming <u>data are compared</u> with saved reference <u>data</u> (6). In case of a difference between the <u>compared data</u> the appropriate occupant protection device is activated, which can be the seatbelt tightener, the emergency brake system (8), the electronic position correction system, the external (10) and internal signal lights, or a navigation reference <u>data</u> transmission for a rescue operation.

USE - The  $\underline{\text{sensor}}$ , the processing, and the indicating components are parts of a comprehensive system for the protection of the occupants of a  $\underline{\text{vehicle}}$  in case of a damaged or flat  $\underline{\text{tire}}$ .

ADVANTAGE - An increased safety for the driver and the passengers is provided.

DESCRIPTION OF DRAWING(S) - The drawing shows a top view of the vehicle.

Tires 1

Pressure sensors 2

Connecting ducts 3, 7

Control device 4

Memory 6

ABS-system 8

Indicator 9

External signal light 10

Dashboard 11

ABSTRACTED-PUB-NO: DE 10360722A

**EQUIVALENT-ABSTRACTS:** 

CHOSEN-DRAWING: Dwg.1/1

DERWENT-CLASS: Q11 Q13 Q17 Q18 W05 X22

EPI-CODES: W05-B07; W05-B10; X22-C02C3; X22-E02B;

Previous Doc Go to Doc# Next Doc

# First Hit Previous Doc Next Doc Go to Doc#

Generate Collection Print

L13: Entry 24 of 48

File: DWPI

Mar 30, 2005

DERWENT-ACC-NO: 2004-161536

DERWENT-WEEK: 200522

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Tire</u> pressure <u>sensor</u> position identification method in two-wheeled motor <u>vehicle</u>, involves <u>comparing</u> pneumatic pressure detection <u>data</u> received from front and rear wheel <u>sensors</u> with prestored pressure value

PATENT-ASSIGNEE: NIPPONDENSO CO LTD (NPDE)

PRIORITY-DATA: 2002JP-0187380 (June 27, 2002)



PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 JP 3633590 B2
 March 30, 2005
 018
 B60C023/04

 JP 2004026062 A
 January 29, 2004
 016
 B60C023/04

APPLICATION-DATA:

PUB-NO APPL-DATE APPL-NO DESCRIPTOR

JP 3633590B2 June 27, 2002 2002JP-0187380

JP 3633590B2 JP2004026062 Previous Publ.

JP2004026062A June 27, 2002 2002JP-0187380

INT-CL (IPC): B60C 23/02; B60C 23/04; G01L 17/00; G08B 21/00

ABSTRACTED-PUB-NO: JP2004026062A

BASIC-ABSTRACT:

NOVELTY - The <u>tire</u> pressure <u>sensors</u> are mounted at front and rear wheels of a <u>vehicle</u>. The pneumatic pressure detection <u>data</u> and identification (ID) are received from sensors, and the ID of respective wheel sensors are identified by <u>comparing</u> the pressure <u>data</u> with prestored pressure-setting value.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) identification registration method;
- (2) position identification system;
- (3) identification registration system; and
- (4) tire pressure monitoring system.

USE - For identifying the position of  $\underline{\text{tire}}$ -pressure  $\underline{\text{sensors}}$  fitted at front/rear wheels of two-wheeled vehicle.

ADVANTAGE - By performing ID registration of sensors automatically, the identification of either front or rear wheel is performed easily, therefore reduces the man-hour in ID registration.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart describing the control process of identification automatic registration done by  $\underline{\text{tire}}$  pressure monitoring apparatus. (Drawing includes non-English language text).

ABSTRACTED-PUB-NO: JP2004026062A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/7

DERWENT-CLASS: Q11 S02 T01 W05 X22

EPI-CODES: S02-A06C; S02-F04C1A; T01-C08B; T01-J07D1; W05-D07D; X22-P02; X22-X06;

Previous Doc Next Doc Go to Doc#

## First Hit Previous Doc Next Doc Go to Doc#

Generate Collection Print

L13: Entry 27 of 48

File: DWPI

Nov 15, 2006

DERWENT-ACC-NO: 2003-779427

DERWENT-WEEK: 200677

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE:  $\underline{\text{Tyre}}$  behavior monitoring method for motor  $\underline{\text{vehicles,}}$  involves  $\underline{\text{comparing}}$  cyclic  $\underline{\text{curve}}$  of acceleration profile derived from  $\underline{\text{tyre}}$  with reference  $\underline{\text{curve}}$  and emitting signal indicating behavior of  $\underline{\text{tyre}}$  based on  $\underline{\text{comparison}}$ 

INVENTOR: BRUSAROSCO, M; FIORAVANTI, A P; MANCOSU, F; TALDO, A; FIORAVANTI, A

PATENT-ASSIGNEE: PIRELLI PNEUMATICI SPA (PIRE), PIRELLI TYRE SPA (PIRE), BRUSAROSCO M (BRUSI), FIORAVANTI A P (FIORI), MANCOSU F (MANCI), TALDO A (TALDI)

PRIORITY-DATA: 2002WO-EP03498 (March 28, 2002)

	Search Selected Search ALL Clear				
PATI	ENT-FAMILY:				
	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
	EP 1487681 B1	November 15, 2006	E	000	B60T008/00
	WO 2003082643 A1	October 9, 2003	E	033	B60T008/00
	AU 2002315757 A1	October 13, 2003		000	B60T008/00
	BR 200209721 A	July 27, 2004		000	B60T008/00
	EP 1487681 A1	December 22, 2004	E	000	B60T008/00
	KR 2005014798 A	February 7, 2005		000	B60T008/00
	KR 2005016318 A	February 21, 2005		000	B60T008/00
	<u>JP 2005521866 W</u>	July 21, 2005		019	G01P015/18
	US 20050204806 A1	September 22, 2005		000	G01M017/02
	CN 1649764 A	August 3, 2005		000	B60T008/00
	RU 2281215 C2	August 10, 2006		000	B60T008/00

DESIGNATED-STATES: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DATE		APPL-NO	DESCRIPTOR
EP 1487681B1	March 28,	2002	2002EP-0740440	
EP 1487681B1	March 28,	2002	2002WO-EP03498	
EP 1487681B1			WO2003082643	Based on
WO2003082643A1	March 28,	2002	2002WO-EP03498	
AU2002315757A1	March 28,	2002	2002AU-0315757	
AU2002315757A1	March 28,	2002	2002WO-EP03498	
AU2002315757A1	•		WO2003082643	Based on
BR 200209721A	March 28,	2002	2002BR-0009721	
BR 200209721A	March 28,	2002	2002WO-EP03498	
BR 200209721A			WO2003082643	Based on
EP 1487681A1	March 28,	2002	2002EP-0740440	
EP 1487681A1	March 28,	2002	2002WO-EP03498	
EP 1487681A1	•		WO2003082643	Based on
KR2005014798A	March 28,	2002	2002WO-EP03498	
KR2005014798A	September	23, 2004	2004KR-0715113	
KR2005016318A	September	23, 2004	2004KR-0715114	
JP2005521866W	March 28,	2002	2002WO-EP03498	
JP2005521866W	March 28,	2002	.2003JP-0580133	
JP2005521866W			WO2003082643	Based on
US20050204806A1	March 28,	2002	2002WO-EP03498	
US20050204806A1	May 11, 20	005	2005US-0508829	
CN 1649764A	March 25,	2003	2003CN-0809542	
RU 2281215C2	March 28,	2002	2002WO-EP03498	
RU 2281215C2	March 28,	2002	2004RU-0131676	
RU 2281215C2 `			WO2003082643	Based on

INT-CL (IPC): B60C 23/00; B60T 8/00; G01M 17/02; G01P 15/00; G01P 15/18

RELATED-ACC-NO: 2003-788324

ABSTRACTED-PUB-NO: WO2003082643A

BASIC-ABSTRACT:

NOVELTY - The method involves storing a reference curve of the acceleration profile of a point of a  $\underline{\text{tyre}}$  (1) and continuously acquiring acceleration signals in two directions on a point in the  $\underline{\text{tyre}}$  during a portion of its revolution. A cyclic  $\underline{\text{curve}}$  of the acceleration profile is derived from the signals, and is  $\underline{\text{compared}}$  with the reference  $\underline{\text{curve}}$ . A signal indicating the behavior of the  $\underline{\text{tyre}}$  is emitted based on the comparison.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) a system for monitoring behavior of a tyre in a rolling condition
- (b) a pneumatic tire with a sensor.

USE - Used for monitoring behavior of rolling tyres of motor vehicles.

ADVANTAGE - The method monitors the acceleration on two points that have relationship with one another with respect to the global behavior of the  $\underline{\text{tyre}}$ , to

give the instantaneous behavior of the tyre. The two points have a specific behavior with respect to the interactions between the tyre and the road.

DESCRIPTION OF DRAWING(S) - The drawing shows a section view of a rolling  $\underline{\mathsf{tyre}}$  with a sensor.

Tyre 1

Sensor 2

Liner surface 111

ABSTRACTED-PUB-NO: WO2003082643A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/8

DERWENT-CLASS: Q11 Q18 S02 X22 EPI-CODES: S02-J02A; X22-E02B;

> Previous Doc Next Doc Go to Doc#

## **Hit List**

First Hit Clear Generate Collection Print Ewd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 21 through 30 of 48 returned.

☐ 21. Document ID: JP 2006242674 A

L13: Entry 21 of 48

File: DWPI

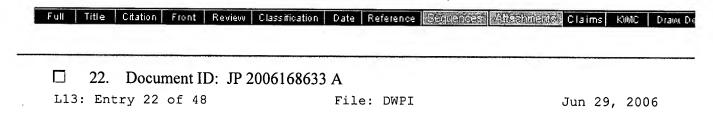
Sep 14, 2006

DERWENT-ACC-NO: 2006-683051

DERWENT-WEEK: 200671

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Light disconnection measuring device for measuring tread depth of  $\underline{\text{tire}}$ , measures step-difference by  $\underline{\text{comparing}}$  image  $\underline{\text{data}}$  of bright line image of slit light formed on ground contact plane of  $\underline{\text{tire}}$ , and reference length  $\underline{\text{data}}$ 

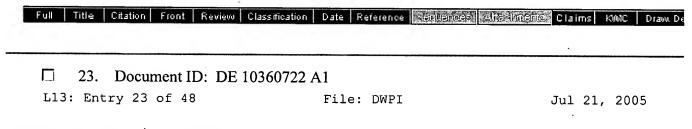


DERWENT-ACC-NO: 2006-495604

DERWENT-WEEK: 200651

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Optimal arrangement position determination system of  $\underline{\text{tire}}$  information reader,  $\underline{\text{compares}}$  strength of radio signal containing  $\underline{\text{tire}}$  related  $\underline{\text{data}}$  received corresponding to each arrangement position of  $\underline{\text{tire}}$  information reader



DERWENT-ACC-NO: 2005-513189

DERWENT-WEEK: 200553

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: System for protection of occupants of  $\underline{\text{vehicle}}$  in case of damaged or flat  $\underline{\text{tire}}$ , comprising  $\underline{\text{sensor}}$ , processing and indicating components



☐ 24. Document ID: JP 3633590 B2, JP 2004026062 A

L13: Entry 24 of 48

File: DWPI

Mar 30, 2005

DERWENT-ACC-NO: 2004-161536

DERWENT-WEEK: 200522

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Tire</u> pressure <u>sensor</u> position identification method in two-wheeled motor <u>vehicle</u>, involves <u>comparing</u> pneumatic pressure detection <u>data</u> received from front and rear wheel <u>sensors</u> with prestored pressure value

Full Title Citation Front Review Classification Date Reference Sequences Stationary Claims NMC Draw De 25. Document ID: EP 1365225 A1, US 20030214394 A1

23. Document ID. EF 1303223 A1, US 20030214394 A

L13: Entry 25 of 48

File: DWPI

Nov 26, 2003

Oct 30, 2003

DERWENT-ACC-NO: 2004-021692

DERWENT-WEEK: 200402

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE:  $\underline{\text{Tire}}$  performance  $\underline{\text{sensing}}$  process for  $\underline{\text{automobile}}$  e.g.  $\underline{\text{car,}}$  involves  $\underline{\text{comparing}}$  base line and updated analyses to provide output  $\underline{\text{data}}$  that is applied against

preprogrammed standards to generate signal

Full Title Citation Front Review Classification Date Reference Attachned Claims Kill Draw De

File: DWPI

L13: Entry 26 of 48

DERWENT-ACC-NO: 2004-165083

DERWENT-WEEK: 200416

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Method for transmitting data of pressure sensor of vehicle tire using change

of magnetic field

Full Title Citation Front Review Classification Date Reference Sciences (Application Claims KWC Draw. De

27. Document ID: EP 1487681 B1, WO 2003082643 A1, AU 2002315757 A1, BR 200209721 A, EP 1487681 A1, KR 2005014798 A, KR 2005016318 A, JP 2005521866 W, US 20050204806 A1, CN 1649764 A, RU 2281215 C2

L13: Entry 27 of 48

File: DWPI

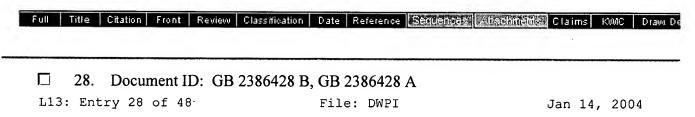
Nov 15, 2006

DERWENT-ACC-NO: 2003-779427

DERWENT-WEEK: 200677

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Tyre behavior monitoring method for motor vehicles, involves comparing cyclic  $\underline{\text{curve}}$  of acceleration profile derived from  $\underline{\text{tyre}}$  with reference  $\underline{\text{curve}}$  and emitting signal indicating behavior of  $\underline{\text{tyre}}$  based on  $\underline{\text{comparison}}$ 

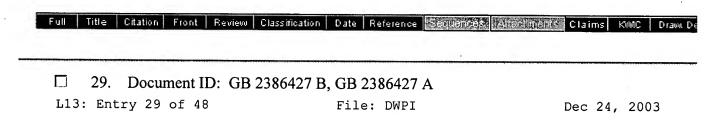


DERWENT-ACC-NO: 2003-880565

DERWENT-WEEK: 200410

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Vehicle tire</u> monitoring system uses microprocessor to supply reference signal to a <u>comparator</u> circuit to determine when to send pressure and temperature <u>data</u> to central control

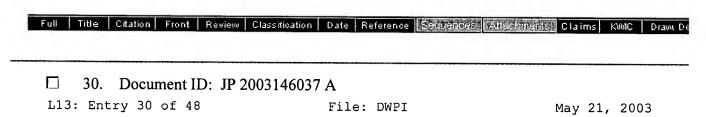


DERWENT-ACC-NO: 2003-880564

DERWENT-WEEK: 200404

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Data</u> transmission unit used in a <u>vehicle tire</u> monitoring system uses microprocessor to supply reference signal to a <u>comparator</u> circuit to determine condition to send data

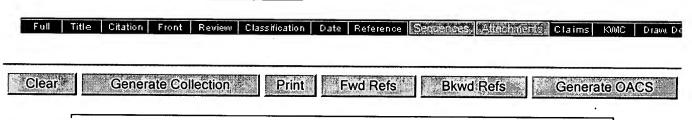


DERWENT-ACC-NO: 2003-474595

DERWENT-WEEK: 200345

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE:  $\underline{\text{Tire}}$  pneumatic pressure reduction method involves determining pneumatic pressure reduction by  $\underline{\text{comparing}}$  measured velocity of  $\underline{\text{vehicle}}$  and wheel speed calculated from rotation  $\underline{\text{data of tire}}$ 



### Hit List

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 31 through 40 of 48 returned.

31. Document ID: US 7032436 B2, WO 200198123 A1, EP 1219515 A1, US 20020162389 A1, JP 2002503575 X

L13: Entry 31 of 48

File: DWPI

Apr 25, 2006

Nov 8, 2001

DERWENT-ACC-NO: 2002-130780

DERWENT-WEEK: 200629

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Vehicular running state estimating device, vehicle control device, and tire wheel for measuring the state of a motor vehicle, estimates road surface state by measuring vibration level

Full Title Citation Front Review Classification Date Reference Saguences Altachments Claims 32. Document ID: KR 2001097490 A L13: Entry 32 of 48 File: DWPI

DERWENT-ACC-NO: 2002-213892

DERWENT-WEEK: 200227

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Device for non-contact judging of type of vehicle according to calculating axis numbers of vehicle and size of tire and method for judging type of vehicle

33. Document ID: CN 1257076 C, WO 200136241 A1, AU 200111465 A, BR 200015627 A, EP 1230115 A1, US 20020166373 A1, US 6561018 B2, JP 2003514707 W, CN 1399599 A, EP

Full Title Citation Front Review Classification Date Reference Sequences Attacliments Claims KMC Draw De

L13: Entry 33 of 48

File: DWPI

May 24, 2006

DERWENT-ACC-NO: 2001-408114

DERWENT-WEEK: 200661

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Instantaneous monitoring system for motor <u>vehicle tires</u> using <u>comparison</u> with a basic reference curve of the spatial position of a specified point on the tire with instantaneous signals to improve monitoring during cornering

1230115 B1, DE 60018199 E, ES 2238321 T3, DE 60018199 T2

☐ 34. Document ID: DE 20006944 U1, DE 19917360 A1

L13: Entry 34 of 48

File: DWPI

Title Citation Front Review Classification Date Reference Sectionates State Interior Claims KMC Draw De

Aug 10, 2000

DERWENT-ACC-NO: 2000-648441

DERWENT-WEEK: 200063

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Tire damage detection system for cars uses acoustic sensors in the wheel

rims

Full Title Citation Front Review Classification Date Reference Southernes Attachments Claims KWC Draw, Da

☐ 35. Document ID: JP 11180118 A

L13: Entry 35 of 48

File: DWPI

Jul 6, 1999

DERWENT-ACC-NO: 1999-438705

DERWENT-WEEK: 199939

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE:  $\underline{\text{Tire}}$ -pressure variation detection procedure for  $\underline{\text{vehicles}}$  - involves detecting wheel with pneumatic pressure variation, based on offset of wheel speed difference data in particular steering angle position measured beforehand

Full Title Citation Front Review Classification Date Reference Scarpences Attachments Claims KMC Draw, Do

☐ 36. Document ID: WO 9806078 A1, ZA 9706950 A, AU 9739718 A, US 5825286 A
L13: Entry 36 of 48

File: DWPI

Feb 12, 1998

DERWENT-ACC-NO: 1998-145819

DERWENT-WEEK: 199849

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Vehicle</u> wheel based data collection and transmission system - has intelligent sensors on <u>vehicle</u> wheels that periodically transmit data by RF to central monitoring and alarm computer

Full Title Citation Front Review Classification Date Reference Sequences Stratinization Claims KWC Draw De

☐ 37. Document ID: WO 9725604 A1, DE 29716210 U1, FR 2743632 A1

L13: Entry 37 of 48

File: DWPI

Jul 17, 1997

DERWENT-ACC-NO: 1997-372990

DERWENT-WEEK: 199804

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Computer controlled <u>automobile tyre</u> testing system with remote camera <u>sensors</u> - digitises images of <u>tyre</u> surface contour and <u>compares</u> with memorised <u>data</u> <u>to if tyre</u> pressure is correct

Full Title Citation Front Review Classification Date Reference Sequences Attestiments Claims KMC Draw De

☐ 38. Document ID: GB 2307555 A, JP 3025998 B2, DE 19543928 A1, DE 19543928 C2, JP 09188238 A, GB 2307555 B, US 5723768 A

L13: Entry 38 of 48

File: DWPI

May 28, 1997

DERWENT-ACC-NO: 1997-261914

DERWENT-WEEK: 200020

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Method for early recognition of floating of <u>vehicle tyre</u> on wet road - includes step of recording via <u>sensor</u> rotational speed of wheel, evaluating frequency spectrum of wheel speed, <u>comparing data</u> to natural resonance behaviour of rotational tyre

Full Title Citation Front Review Classification Date Reference Sequences Attachnients Claims KWC Draw De

39. Document ID: DE 19523917 A1, DE 19523917 C2

L13: Entry 39 of 48

File: DWPI

Jan 2, 1997

DERWENT-ACC-NO: 1997-053673

DERWENT-WEEK: 199830

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Detection, measurement and display of  $\underline{\text{tyre}}$  tread depth during travel on wet roads - using  $\underline{\text{sensor}}$  to measure max. water quantity thrown up by  $\underline{\text{tyre}}$  tread for  $\underline{\text{comparison}}$  with computer stored characteristic  $\underline{\text{curves}}$  of speed and amplitude

Full Title Citation Front Review Classification Date Reference Sequences Affectivents Claims KWIC Draw De

40. Document ID: WO 9638004 A1, CN 1157078 A, US 5600435 A, EP 772939 A1, US 5731870 A, KR 97705304 A, HU 9700219 A2

L13: Entry 40 of 48

File: DWPI

Nov 28, 1996

DERWENT-ACC-NO: 1997-021547

DERWENT-WEEK: 200139

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Optical <u>sensor</u> apparatus for <u>automobile</u> wheel alignment machines - has light source to project laser light onto <u>tyre</u> sidewall and camera which receives reflected light and provides data stream to microprocessor

Full Title Citation Front Review Classification Date Reference Regularices Attentiments Claims KVMC Draw. De

Generate Collection Print Fwd Refs Bkwd	Refs Generate O/
Terms	Documents
L12 and (compar\$ with (curves or data))	

Display Format: - Change Format

First Hit Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 41 through 48 of 48 returned.

41. Document ID: US 5537090 A

L13: Entry 41 of 48

File: DWPI

Jul 16, 1996

DERWENT-ACC-NO: 1996-341666

DERWENT-WEEK: 199634

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Truck tyre under-inflation detection system - utilises contact or noncontact thermometers directed toward tyre-wheel assembly which transmit approximate temp. of each tyre-wheel assembly to computer to identify each abnormally overheated tyre-wheel assembly

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

42. Document ID: JP 3854635 B2, WO 9620843 A1, AU 9647507 A, US 5569848 A, EP 800464 A1, JP 10512515 W, KR 98701221 A, BR 9606862 A, CN 1177319 A, EP 800464 B1, DE 69624557 E, ES 2183930 T3, KR 397951 B, CN 1072137 C

L13: Entry 42 of 48

File: DWPI

Dec 6, 2006

DERWENT-ACC-NO: 1996-333857

DERWENT-WEEK: 200680

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Vehicle having multiple tyre and wheel assemblies operating information obtaining method - using sensing unit operably associated with toothed rings in manner to sense rotation speed of wheel assembly, speedometer and odometer display units connected to sensors via computer

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

43. Document ID: WO 9606747 A2, AU 9533926 A, WO 9606747 A3, EP 778803 A1, JP 10504783 W, KR 97705481 A, US 6271748 B1, US 20020044050 A1, US 6545599 B2

L13: Entry 43 of 48

File: DWPI

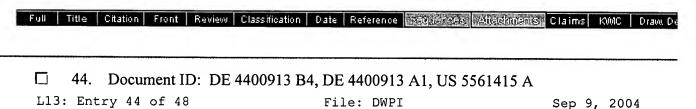
Mar 7, 1996

DERWENT-ACC-NO: 1996-160230

DERWENT-WEEK: 200339

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Motor vehicle tyre condition monitoring system - transmits data from tyre temperature, pressure and rotation <u>sensors</u> by RF to analysing unit for <u>comparison</u> with thresholds set by user

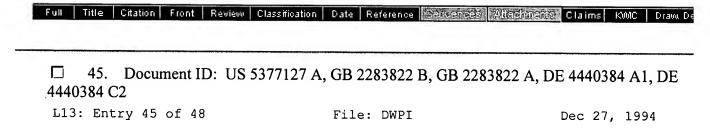


DERWENT-ACC-NO: 1995-255727

DERWENT-WEEK: 200459

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Method of detecting <u>tyre</u> pressure-loss for motor <u>vehicle</u> - involves using warning signal based on slip values derived from anti-lock braking <u>sensors</u>

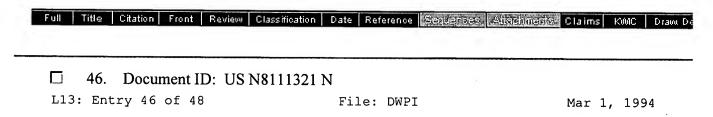


DERWENT-ACC-NO: 1995-043705

DERWENT-WEEK: 199751

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Software calibration of rotational speed sensors for four wheel drive <a href="https://www.vehicle">wehicle</a> - by scaling rotation detecting sensors to get accurate <a href="https://data.org/data.org/data">data</a> and comparing stored <a href="https://data.org/d

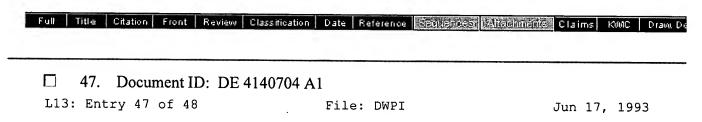


DERWENT-ACC-NO: 1994-118001

DERWENT-WEEK: 200317

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Remote  $\underline{\text{tyre}}$  pressure  $\underline{\text{sensing}}$  technique for stationary  $\underline{\text{vehicle}}$  - attaching vibration frequency measuring device to external surface of  $\underline{\text{tyre}}$  which is then struck with object, causing  $\underline{\text{tyre}}$  to vibrate, measurement device converts vibration into corresp. electrical impulses



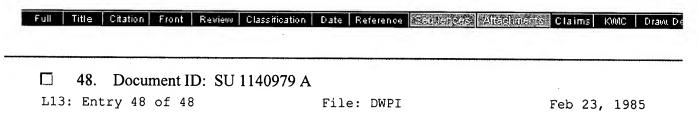
DERWENT-ACC-NO: 1993-197836

DERWENT-WEEK: 199325

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Controlled tyre pressure adjustment device - has compressor, to supply air

to pressure vessel, and valve with pressure hose to inflate tyres

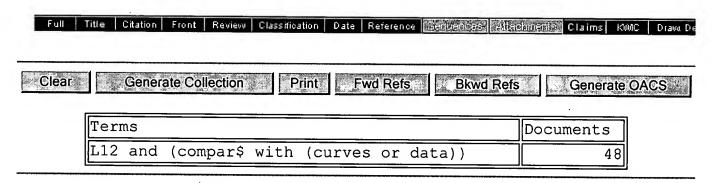


DERWENT-ACC-NO: 1985-228719

DERWENT-WEEK: 198537

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Car tyres</u> vulcanisation control system - has temp. <u>sensing</u> converted for model with output switched to model of final vulcanisation during cooling and output to computer



Display Format: - Change Format

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 48 returned.

☐ 1. Document ID: JP 2006308514 A

L13: Entry 1 of 48

File: JPAB

Nov 9, 2006

PUB-NO: JP02006308514A

DOCUMENT-IDENTIFIER: JP 2006308514 A

TITLE: IMAGE PROCESSING TYPE SNOW COVER SENSOR ON ROAD SURFACE AND SNOW COVER

DETECTING METHOD

Full Title Citation Front Review Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims KMC Draw De Classification Date Reference Sequences Patachinerias Claims Claims

PUB-NO: JP02006168633A

DOCUMENT-IDENTIFIER: JP 2006168633 A

TITLE: OPTIMUM ARRANGEMENT POSITION DETERMINATION SYSTEM FOR TIRE INFORMATION

READING DEVICE

Full Title Citation Front Review Classification Date Reference Schuences Attachments Claims KWIC Draw, De 3. Document ID: JP 2005156236 A

L13: Entry 3 of 48

File: JPAB

Jun 16, 2005

PUB-NO: JP02005156236A

DOCUMENT-IDENTIFIER: JP 2005156236 A

TITLE: METHOD FOR DETERMINING ROAD SURFACE CIRCUMSTANCE, AND ITS SYSTEM

Full Title Citation Front Review Classification Date Reference Soulishess Vitashments Claims KMC Draw Do

4. Document ID: JP 2005008039 A

L13: Entry 4 of 48 File: JPAB Jan 13, 2005

PUB-NO: JP02005008039A

DOCUMENT-IDENTIFIER: JP 2005008039 A

TITLE: TIRE AIR PRESSURE MONITORING DEVICE

Full Title Citation Front Review Classification Date Reference Sequences Attachinents, Claims KMC Draw De

☐ 5. Document ID: JP 2003276627 A

L13: Entry 5 of 48

File: JPAB

Oct 2, 2003

PUB-NO: JP02003276627A

DOCUMENT-IDENTIFIER: JP 2003276627 A

TITLE: VEHICLE CONTROL DEVICE

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Drawn Date

6. Document ID: JP 2003154825 A

L13: Entry 6 of 48

File: JPAB

May 27, 2003

PUB-NO: JP02003154825A

DOCUMENT-IDENTIFIER: JP 2003154825 A

TITLE: TIRE AIR PRESSURE MONITORING DEVICE

Full Title Citation Front Review Classification Date Reference **Sequences Altachments** Claims KWIC Draw. De

☐ 7. Document ID: JP 2002120530 A

L13: Entry 7 of 48

File: JPAB

Apr 23, 2002

PUB-NO: JP02002120530A

DOCUMENT-IDENTIFIER: JP 2002120530 A

TITLE: MONITORING METHOD FOR PNEUMATIC TIRE, AND MONITORING DEVICE THEREFOR

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KIMC Draw De

□ 8. Document ID: JP 2001042943 A

L13: Entry 8 of 48

File: JPAB

Feb 16, 2001

PUB-NO: JP02001042943A

DOCUMENT-IDENTIFIER: JP 2001042943 A

TITLE: MOVING VEHICLE OPERATION CONTROL SYSTEM AND POSITION DETECTING METHOD

Full Title Citation Front Review Classification Date Reference **Sequences Attechniques** Claims KMC Draw De

☐ 9. Document ID: JP 07260502 A

L13: Entry 9 of 48

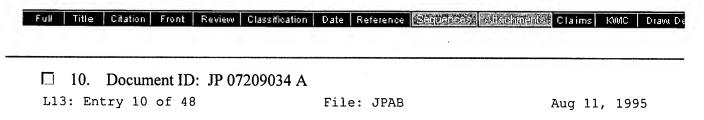
File: JPAB

Oct 13, 1995

PUB-NO: JP407260502A

DOCUMENT-IDENTIFIER: JP 07260502 A

TITLE: PRESENT POSITION COMPUTING DEVICE



PUB-NO: JP407209034A

DOCUMENT-IDENTIFIER: JP 07209034 A

TITLE: ANTIHYDROPLANING APPARATUS FOR AUTOMOBILE

Full	Title	Citation	Front	Review	Classification	Date	Reference	121-7 B	100-2	প্রার্থন	neris:	Claims	: KW	1C   C
												· · · · · · · · · · · · · · · · · · ·		
1000	100	·	-+- C-I		D-:		- D 6	400	ni Wi	<b>5</b>	331		MANAGE NO.	AVA 65
lear		Gener	ate Col	lection	Print	F	wd Refs		Bkwd	Refs		Gene	rate (	OAC
lear		Gener	ate Col	lection	Print	) K.F.	wd Refs		Bkwd	Refs		Gene	rate (	OAC:
lear	Ter		ate Col	lection	Print		wd Refs		Bkwd	· · · · · · · · · · · · · · · · · · ·		Gene ment		OAC:

Change Format Display Format: -

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 11 through 20 of 48 returned.

☐ 11. Document ID: JP 03281406 A

L13: Entry 11 of 48

File: JPAB

Dec 12, 1991

PUB-NO: JP403281406A

DOCUMENT-IDENTIFIER: JP 03281406 A

TITLE: CONTROL DEVICE FOR TIRE PRESSURE

Full Title Citation Front Review Classification Date Reference Seguences Attackinishts. Claims KMC Draw. De

☐ 12. Document ID: JP 03267713 A

L13: Entry 12 of 48

File: JPAB

Nov 28, 1991

PUB-NO: JP403267713A

DOCUMENT-IDENTIFIER: JP 03267713 A

TITLE: NAVIGATION SYSTEM

Full Title Citation Front Review Classification Date Reference **Sequences Ethechments** Claims KWC Draw De

☐ 13. Document ID: JP 60148769 A

L13: Entry 13 of 48

File: JPAB

Aug 6, 1985

PUB-NO: JP360148769A

DOCUMENT-IDENTIFIER: JP 60148769 A TITLE: STEERING DEVICE FOR <u>VEHICLES</u>

Full Title Citation Front Review Classification Date Reference Sequences Altechnicals Claims KWC Draw De

☐ 14. Document ID: WO 3045753 A1

L13: Entry 14 of 48

File: EPAB

Jun 5, 2003

PUB-NO: WO003045753A1

DOCUMENT-IDENTIFIER: WO 3045753 A1

TITLE: METHOD FOR IMPROVING THE REGULATION BEHAVIOUR OF AN ANTI-LOCK HYDRAULIC

BRAKING SYSTEM OF A MOTOR VEHICLE

Full Title Citation Front Review Classification Date Reference Employages Attackments Claims KMC Draw De

☐ 15. Document ID: EP 1219515 A1

L13: Entry 15 of 48

File: EPAB

Jul 3, 2002

PUB-NO: EP001219515A1

DOCUMENT-IDENTIFIER: EP 1219515 A1

TITLE: METHOD FOR ESTIMATING VEHICULAR RUNNING STATE, VEHICULAR RUNNING STATE

ESTIMATING DEVICE, VEHICLE CONTROL DEVICE, AND TIRE WHEEL

Full Title Citation Front Review Classification Date Reference Servences Attachments Claims Kill Draw De

☐ 16. Document ID: WO 160644 A1

L13: Entry 16 of 48

File: EPAB

Aug 23, 2001

PUB-NO: WO000160644A1

DOCUMENT-IDENTIFIER: WO 160644 A1

TITLE: SYSTEM FOR DETECTING THE OPTIMUM TYRE INFLATION PRESSURE

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 17. Document ID: DE 19917360 A1

L13: Entry 17 of 48

File: EPAB

Oct 19, 2000

PUB-NO: DE019917360A1

DOCUMENT-IDENTIFIER: DE 19917360 A1

TITLE: Tire damage detection system for cars uses acoustic sensors in the wheel

rims

Full Title Citation Front Review Classification Date Reference **Sequences** Attenments Claims KWIC Draw. De

☐ 18. Document ID: EP 832766 A2

L13: Entry 18 of 48

File: EPAB

Apr 1, 1998

PUB-NO: EP000832766A2

DOCUMENT-IDENTIFIER: EP 832766 A2 TITLE: <u>Tire</u> pressure detecting device

Full Title Citation Front Review Classification Date Reference Sequences Attendments Claims KMC Draw De

☐ 19. Document ID: EP 788901 A1

L13: Entry 19 of 48

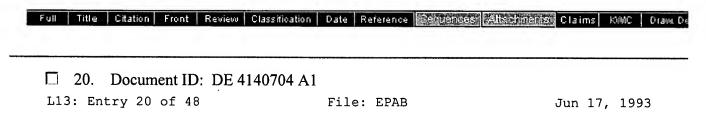
File: EPAB

Aug 13, 1997

PUB-NO: EP000788901A1

DOCUMENT-IDENTIFIER: EP 788901 A1

TITLE: Method of detecting a deflated tyre on a vehicle

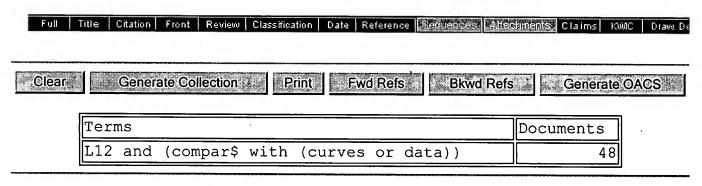


PUB-NO: DE004140704A1

DOCUMENT-IDENTIFIER: DE 4140704 A1

TITLE: Controlled tyre pressure adjustment device - has compressor, to supply air

to pressure vessel, and valve with pressure hose to inflate tyres



Display Format: - Change Format

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 21 through 30 of 48 returned.

21. Document ID: JP 2006242674 A

L13: Entry 21 of 48

File: DWPI

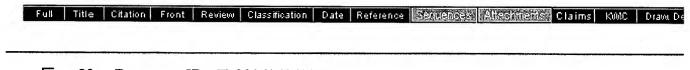
Sep 14, 2006

DERWENT-ACC-NO: 2006-683051

DERWENT-WEEK: 200671

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Light disconnection measuring device for measuring tread depth of <u>tire</u>, measures step-difference by <u>comparing</u> image <u>data</u> of bright line image of slit light formed on ground contact plane of tire, and reference length data



☐ 22. Document ID: JP 2006168633 A

L13: Entry 22 of 48

File: DWPI

Jun 29, 2006

DERWENT-ACC-NO: 2006-495604

DERWENT-WEEK: 200651

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Optimal arrangement position determination system of  $\underline{\text{tire}}$  information reader,  $\underline{\text{compares}}$  strength of radio signal containing  $\underline{\text{tire}}$  related  $\underline{\text{data}}$  received corresponding to each arrangement position of tire information reader

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, De

☐ 23. Document ID: DE 10360722 A1

L13: Entry 23 of 48

File: DWPI

Jul 21, 2005

DERWENT-ACC-NO: 2005-513189

DERWENT-WEEK: 200553

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: System for protection of occupants of <u>vehicle</u> in case of damaged or flat <u>tire</u>, comprising sensor, processing and indicating components

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 24. Document ID: JP 3633590 B2, JP 2004026062 A

L13: Entry 24 of 48

File: DWPI

Mar 30, 2005

DERWENT-ACC-NO: 2004-161536

DERWENT-WEEK: 200522

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Tire</u> pressure <u>sensor</u> position identification method in two-wheeled motor <u>vehicle</u>, involves <u>comparing</u> pneumatic pressure detection <u>data</u> received from front and rear wheel <u>sensors</u> with prestored pressure value

Full Title Citation Front Review Classification Date Reference Sequences Altschinents Claims KWIC Draw Do

25. Document ID: EP 1365225 A1, US 20030214394 A1

L13: Entry 25 of 48

File: DWPI

Nov 26, 2003

DERWENT-ACC-NO: 2004-021692

DERWENT-WEEK: 200402

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE:  $\underline{\text{Tire}}$  performance  $\underline{\text{sensing}}$  process for  $\underline{\text{automobile}}$  e.g.  $\underline{\text{car,}}$  involves  $\underline{\text{comparing}}$  base line and updated analyses to provide output  $\underline{\text{data}}$  that is applied against  $\cdot$  preprogrammed standards to generate signal

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw. Do

☐ 26. Document ID: KR 2003083471 A

L13: Entry 26 of 48

File: DWPI

Oct 30, 2003

DERWENT-ACC-NO: 2004-165083

DERWENT-WEEK: 200416

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Method for transmitting data of pressure sensor of vehicle tire using change

of magnetic field

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 27. Document ID: EP 1487681 B1, WO 2003082643 A1, AU 2002315757 A1, BR 200209721 A, EP 1487681 A1, KR 2005014798 A, KR 2005016318 A, JP 2005521866 W, US 20050204806 A1, CN 1649764 A, RU 2281215 C2

L13: Entry 27 of 48

File: DWPI

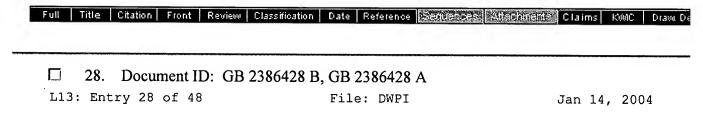
Nov 15, 2006

DERWENT-ACC-NO: 2003-779427

DERWENT-WEEK: 200677

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Tyre</u> behavior monitoring method for motor <u>vehicles</u>, involves <u>comparing</u> cyclic <u>curve</u> of acceleration profile derived from <u>tyre</u> with reference <u>curve</u> and emitting signal indicating behavior of <u>tyre</u> based on comparison

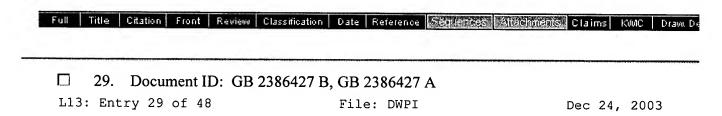


DERWENT-ACC-NO: 2003-880565

DERWENT-WEEK: 200410

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Vehicle tire</u> monitoring system uses microprocessor to supply reference signal to a <u>comparator</u> circuit to determine when to send pressure and temperature data to central control

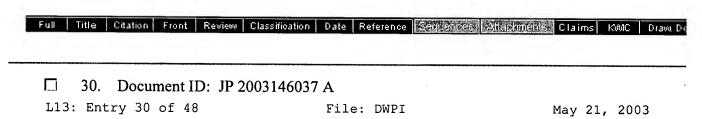


DERWENT-ACC-NO: 2003-880564

DERWENT-WEEK: 200404

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Data</u> transmission unit used in a <u>vehicle tire</u> monitoring system uses microprocessor to supply reference signal to a <u>comparator</u> circuit to determine condition to send data

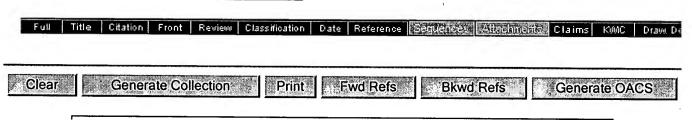


DERWENT-ACC-NO: 2003-474595

DERWENT-WEEK: 200345

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: <u>Tire</u> pneumatic pressure reduction method involves determining pneumatic pressure reduction by <u>comparing</u> measured velocity of <u>vehicle</u> and wheel speed calculated from rotation <u>data</u> of tire



Terms				Documents
L12 and (compar\$	with	(curves or	data))	48

Display Format: - Change Format

First Hit
Clear
Generate Collection
Print
Fwd Refs
Bkwd Refs
Generate OACS

# **Search Results -** Record(s) 1 through 10 of 10 returned.

#### ☐ 1. Document ID: US 20030050743 A1

L10: Entry 1 of 10

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050743

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050743 A1

TITLE: Method and system for controlling the behaviour of a  $\frac{\text{vehicle}}{\text{obs}}$  by controlling

its tyres

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Caretta, Renato Gallarate IT
Cesarini, Riccardo Bergamo IT
Mancosu, Federico Milano IT

US-CL-CURRENT: 701/1; 340/442

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw C	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawa D
--	------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

# ☐ 2. Document ID: US 20020166373 A1

L10: Entry 2 of 10

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020166373

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020166373 A1

TITLE: Method and device for monitoring the instantaneous behaviour of a tyre

during the running of a motor vehicle

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Mancosu, Federico Milano IT Matrascia, Giuseppe Seregno IT Record List Display

Page 2 of 4

Gelosa, Elda

Lissone

IT

Misani, Piero

Monza

ΙT

US-CL-CURRENT: 73/146

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draws D

3. Document ID: US 20010029420 A1

L10: Entry 3 of 10

File: PGPB

Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010029420

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010029420 A1

TITLE: Apparatus and method for presuming condition of road surface

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Kawasaki, Hiroaki

Kobe-shi

JΡ

Nakao, Yukio

Kobe-shi

JP

US-CL-CURRENT: 701/80; 701/71, 701/90

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. D

□ 4. Document ID: US 6763288 B2

L10: Entry 4 of 10

File: USPT

Jul 13, 2004

US-PAT-NO: 6763288

DOCUMENT-IDENTIFIER: US 6763288 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Method and system for monitoring and/or controlling behavior of a vehicle by measuring deformations of its tires

Full Title Citation Front Review Classification Date Reference Sexuences Attechnicits Claims KMC Draw D

5. Document ID: US 6577941 B2

L10: Entry 5 of 10

File: USPT

Jun 10, 2003

US-PAT-NO: 6577941

DOCUMENT-IDENTIFIER: US 6577941 B2

Record List Display Page 3 of 4

TITLE: Apparatus and method for determining condition of road surface

Full Title Citation Front Review Classification Date Reference Sequences Attentions Claims KIMC Draw. D

# □ 6. Document ID: US 6561018 B2

L10: Entry 6 of 10

File: USPT

May 13, 2003

US-PAT-NO: 6561018

DOCUMENT-IDENTIFIER: US 6561018 B2

TITLE: Method and device for monitoring the instantaneous behavior of a tire during the running of a motor vehicle

Full Title Citation Front Review Classification Date Reference Sections Allactinents Claims KMC Draw D

#### □ 7. Document ID: US 6163747 A

L10: Entry 7 of 10

File: USPT

Dec 19, 2000

US-PAT-NO: 6163747

DOCUMENT-IDENTIFIER: US 6163747 A

TITLE: Road friction coefficient detecting apparatus and method thereof

Full Title Citation Front Review Classification Date Reference Sequences Attackinems Claims KMC Draw D

# □ 8. Document ID: US 5771480 A

L10: Entry 8 of 10

File: USPT

Jun 23, 1998

US-PAT-NO: 5771480

DOCUMENT-IDENTIFIER: US 5771480 A

TITLE: Method and device for identifying kind of tire

Full Title Citation Front Review Classification Date Reference Sequences Altachments Claims KMC Draw. D

# ☐ 9. Document ID: US 5561415 A

L10: Entry 9 of 10

File: USPT

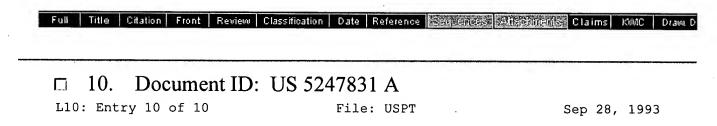
Oct 1, 1996

US-PAT-NO: 5561415

DOCUMENT-IDENTIFIER: US 5561415 A

TITLE: Method and device for determining filling pressure loss of a pneumatic

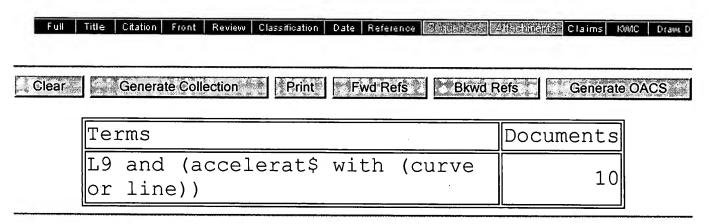
vehicle tire



US-PAT-NO: 5247831

DOCUMENT-IDENTIFIER: US 5247831 A

TITLE: Method and system for monitoring the tire footprints of a motor vehicle, particularly for automatically optimizing the behavior of the motor vehicle



**Display Format:** -Change Format